

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8         E.Deptno = D.Deptno;
```

EMPNAME	EMPDEPTNO	MGRNAME	MGRDEPTNO
JONES	20	KING	10
CLARK	10	KING	10
BLAKE	30	KING	10
WARD	30	BLAKE	30
JAMES	30	BLAKE	30
TURNER	30	BLAKE	30
ALLEN	30	BLAKE	30
MARTIN	30	BLAKE	30
MILLER	10	CLARK	10
SCOTT	20	JONES	20
FORD	20	JONES	20
SMITH	20	FORD	20
ADAMS	20	SCOTT	20

13 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8         E.Deptno = D.Deptno;
```

EMPNAME	EMPDEPTNO	MGRNAME	MGRDEPTNO
JONES	20	KING	10
CLARK	10	KING	10
BLAKE	30	KING	10

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```
.....
WARD                30 BLAKE                30
JAMES               30 BLAKE                30
TURNER              30 BLAKE                30
ALLEN               30 BLAKE                30
MARTIN              30 BLAKE                30
MILLER              10 CLARK                10
SCOTT               20 JONES                20
FORD                20 JONES                20
SMITH               20 FORD                20
ADAMS               20 SCOTT                20
```

13 rows selected.

Execution Plan

Plan hash value: 3638257876

```
-----
--
| Id  | Operation                | Name | Rows  | Bytes | Cost (%CPU)| Time     |
|-----|-----|-----|-----|-----|-----|-----|
--
|  0  | SELECT STATEMENT         |      |    13 |   858 |    7  (15) | 00:00:01 |
|  *  |  HASH JOIN               |      |    13 |   858 |    7  (15) | 00:00:01 |
|  2  |    TABLE ACCESS FULL    | EMP  |    14 |   462 |    3   (0) | 00:00:01 |
|  3  |    TABLE ACCESS FULL    | EMP  |    14 |   462 |    3   (0) | 00:00:01 |
|-----|-----|-----|-----|-----|-----|
--
```

Predicate Information (identified by operation id):

```
-----
1 - access("E"."MGR"="M"."EMPNO")
```

Note

- dynamic sampling used for this statement

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```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  E.Ename EmpName,
3  E.Deptno EmpDeptno,
4  M.Ename MGRName,
5  M.Deptno MGRDeptno
6  FROM Emp E, Emp M
7* WHERE E.MGR = M.Empno
SQL> /
```

EMPNAME	EMPDEPTNO	MGRNAME	MGRDEPTNO
JONES	20	KING	10
CLARK	10	KING	10
BLAKE	30	KING	10
WARD	30	BLAKE	30
JAMES	30	BLAKE	30
TURNER	30	BLAKE	30
ALLEN	30	BLAKE	30
MARTIN	30	BLAKE	30
MILLER	10	CLARK	10
SCOTT	20	JONES	20
FORD	20	JONES	20
SMITH	20	FORD	20
ADAMS	20	SCOTT	20

13 rows selected.

Execution Plan

Plan hash value: 3638257876

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		13	858	7 (15)	00:00:01

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```
-----
| * 1 | HASH JOIN          |      | 13 | 858 |      | 7 (15) | 00:00:01
|
| 2 | TABLE ACCESS FULL| EMP | 14 | 462 |      | 3 (0) | 00:00:01
|
| 3 | TABLE ACCESS FULL| EMP | 14 | 462 |      | 3 (0) | 00:00:01
|
-----
```

Predicate Information (identified by operation id):

1 - access("E"."MGR"="M"."EMPNO")

Note

- dynamic sampling used for this statement

SQL> cl scr

SQL> SET AUTOTRACE OFF EXPLAIN

SQL> cl scr

SQL> SELECT

```
2 E.Ename EmpName,
3 Dname EmpDname,
4 Loc EmpPlace,
5 M.Ename MGRName,
6 Dname MGRDname
7 FROM Emp E, Dept D, Emp M
8 WHERE E.MGR = M.Empno AND
9        E.Deptno = D.Deptno;
```

EMPNAME	EMPDNAME	EMPPLACE	MGRNAME	MGRDNAME
JONES	RESEARCH	DALLAS	KING	RESEARCH
CLARK	ACCOUNTING	NEW YORK	KING	ACCOUNTING
BLAKE	SALES	CHICAGO	KING	SALES
WARD	SALES	CHICAGO	BLAKE	SALES
JAMES	SALES	CHICAGO	BLAKE	SALES
TURNER	SALES	CHICAGO	BLAKE	SALES
ALLEN	SALES	CHICAGO	BLAKE	SALES
MARTIN	SALES	CHICAGO	BLAKE	SALES
MILLER	ACCOUNTING	NEW YORK	CLARK	ACCOUNTING

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```
SCOTT      RESEARCH      DALLAS      JONES      RESEARCH
FORD       RESEARCH      DALLAS      JONES      RESEARCH
SMITH      RESEARCH      DALLAS      FORD       RESEARCH
ADAMS      RESEARCH      DALLAS      SCOTT      RESEARCH
```

13 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  E.Ename EmpName,
3  Dname EmpDname,
4  Loc EmpPlace,
5  M.Ename MGRName,
6  Dname MGRDname
7  FROM Emp E, Dept D, Emp M
8  WHERE E.MGR = M.Empno AND
9*      M.Deptno = D.Deptno
SQL> /
```

EMPNAME	EMPDNAME	EMPPLACE	MGRNAME	MGRDNAME
BLAKE	ACCOUNTING	NEW YORK	KING	ACCOUNTING
CLARK	ACCOUNTING	NEW YORK	KING	ACCOUNTING
JONES	ACCOUNTING	NEW YORK	KING	ACCOUNTING
MARTIN	SALES	CHICAGO	BLAKE	SALES
ALLEN	SALES	CHICAGO	BLAKE	SALES
TURNER	SALES	CHICAGO	BLAKE	SALES
JAMES	SALES	CHICAGO	BLAKE	SALES
WARD	SALES	CHICAGO	BLAKE	SALES
FORD	RESEARCH	DALLAS	JONES	RESEARCH
SMITH	RESEARCH	DALLAS	FORD	RESEARCH
SCOTT	RESEARCH	DALLAS	JONES	RESEARCH
ADAMS	RESEARCH	DALLAS	SCOTT	RESEARCH
MILLER	ACCOUNTING	NEW YORK	CLARK	ACCOUNTING

13 rows selected.

```
SQL> ED
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```

```
1  SELECT
2  E.Ename EmpName,
```

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```
3 Dname EmpDname,
4 Loc EmpPlace,
5 M.Ename MGRName,
6 Dname MGRDname
7 FROM Emp E, Dept D, Emp M
8 WHERE E.MGR = M.Empno AND
9        M.Deptno = D.Deptno AND
10*      E.Deptno = D.Deptno
SQL> /
```

EMPNAME	EMPDNAME	EMPPLACE	MGRNAME	MGRDNAME
CLARK	ACCOUNTING	NEW YORK	KING	ACCOUNTING
WARD	SALES	CHICAGO	BLAKE	SALES
JAMES	SALES	CHICAGO	BLAKE	SALES
TURNER	SALES	CHICAGO	BLAKE	SALES
ALLEN	SALES	CHICAGO	BLAKE	SALES
MARTIN	SALES	CHICAGO	BLAKE	SALES
MILLER	ACCOUNTING	NEW YORK	CLARK	ACCOUNTING
SCOTT	RESEARCH	DALLAS	JONES	RESEARCH
FORD	RESEARCH	DALLAS	JONES	RESEARCH
SMITH	RESEARCH	DALLAS	FORD	RESEARCH
ADAMS	RESEARCH	DALLAS	SCOTT	RESEARCH

11 rows selected.

SQL> cl scr

```
SQL> SELECT
2 E.Ename EmpName,
3 DE.Dname EmpDname,
4 DE.Loc EmpLoc,
5 M.Ename MGRName,
6 DM.Dname MGRDname
7 FROM Emp E, Dept DE, Emp M, Dept DM
8 WHERE E.MGR = M.Empno AND
9        E.Deptno = DE.Deptno AND
10       M.Deptno = DM.Deptno
11 ORDER BY E.Deptno;
```

EMPNAME	EMPDNAME	EMPLOC	MGRNAME	MGRDNAME
MILLER	ACCOUNTING	NEW YORK	CLARK	ACCOUNTING
CLARK	ACCOUNTING	NEW YORK	KING	ACCOUNTING

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```
FORD      RESEARCH      DALLAS      JONES      RESEARCH
SCOTT     RESEARCH      DALLAS      JONES      RESEARCH
SMITH     RESEARCH      DALLAS      FORD       RESEARCH
ADAMS     RESEARCH      DALLAS      SCOTT      RESEARCH
JONES     RESEARCH      DALLAS      KING       ACCOUNTING
JAMES     SALES         CHICAGO     BLAKE      SALES
WARD      SALES         CHICAGO     BLAKE      SALES
TURNER    SALES         CHICAGO     BLAKE      SALES
ALLEN     SALES         CHICAGO     BLAKE      SALES
MARTIN    SALES         CHICAGO     BLAKE      SALES
BLAKE     SALES         CHICAGO     KING       ACCOUNTING
```

13 rows selected.

```
SQL> SELECT
      2  E.Ename EmpName,
      3  E.Sal EmpSal,
      4  M.Ename MGRName,
      5  M.Sal EmpSal,
      6  Dname MGRDname
      7  FROM Emp E, Dept D, Emp M
      8  WHERE E.Deptno = D.Deptno AND
      9  E.MGR = M.Empno;
```

EMPNAME	EMPSAL	MGRNAME	EMPSAL	MGRDNAME
JONES	2975	KING	5000	RESEARCH
CLARK	2450	KING	5000	ACCOUNTING
BLAKE	2850	KING	5000	SALES
WARD	1250	BLAKE	2850	SALES
JAMES	950	BLAKE	2850	SALES
TURNER	1500	BLAKE	2850	SALES
ALLEN	1600	BLAKE	2850	SALES
MARTIN	1250	BLAKE	2850	SALES
MILLER	1300	CLARK	2450	ACCOUNTING
SCOTT	3000	JONES	2975	RESEARCH
FORD	3000	JONES	2975	RESEARCH
SMITH	800	FORD	3000	RESEARCH
ADAMS	1100	SCOTT	3000	RESEARCH

13 rows selected.

```
SQL> ED
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```
1  SELECT
2  E.Ename EmpName,
3  E.Sal EmpSal,
4  M.Ename MGRName,
5  M.Sal EmpSal,
6  Dname MGRDname
7  FROM Emp E, Dept D, Emp M
8  WHERE M.Deptno = D.Deptno  AND
9* E.MGR = M.Empno
SQL> /
```

EMPNAME	EMPSAL	MGRNAME	EMPSAL	MGRDNAME
BLAKE	2850	KING	5000	ACCOUNTING
CLARK	2450	KING	5000	ACCOUNTING
JONES	2975	KING	5000	ACCOUNTING
MARTIN	1250	BLAKE	2850	SALES
ALLEN	1600	BLAKE	2850	SALES
TURNER	1500	BLAKE	2850	SALES
JAMES	950	BLAKE	2850	SALES
WARD	1250	BLAKE	2850	SALES
FORD	3000	JONES	2975	RESEARCH
SMITH	800	FORD	3000	RESEARCH
SCOTT	3000	JONES	2975	RESEARCH
ADAMS	1100	SCOTT	3000	RESEARCH
MILLER	1300	CLARK	2450	ACCOUNTING

13 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  E.Ename EmpName,
3  E.Sal EmpSal,
4  Dname EMPDname,
5  M.Ename MGRName,
6  M.Sal EmpSal,
7  Dname MGRDname
8  FROM Emp E, Dept D, Emp M
9  WHERE M.Deptno = D.Deptno  AND
10* E.MGR = M.Empno
SQL> /
```

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EMPNAME	EMPSAL	EMPDNAME	MGRNAME	EMPSAL	MGRDNAME
BLAKE	2850	ACCOUNTING	KING	5000	ACCOUNTING
CLARK	2450	ACCOUNTING	KING	5000	ACCOUNTING
JONES	2975	ACCOUNTING	KING	5000	ACCOUNTING
MARTIN	1250	SALES	BLAKE	2850	SALES
ALLEN	1600	SALES	BLAKE	2850	SALES
TURNER	1500	SALES	BLAKE	2850	SALES
JAMES	950	SALES	BLAKE	2850	SALES
WARD	1250	SALES	BLAKE	2850	SALES
FORD	3000	RESEARCH	JONES	2975	RESEARCH
SMITH	800	RESEARCH	FORD	3000	RESEARCH
SCOTT	3000	RESEARCH	JONES	2975	RESEARCH
ADAMS	1100	RESEARCH	SCOTT	3000	RESEARCH
MILLER	1300	ACCOUNTING	CLARK	2450	ACCOUNTING

13 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  E.Ename EmpName,
3  E.Sal EmpSal,
4  Dname EMPDname,
5  M.Ename MGRName,
6  M.Sal EmpSal,
7  Dname MGRDname
8  FROM Emp E, Dept D, Emp M
9  WHERE E.Deptno = D.Deptno AND
10* E.MGR = M.Empno
SQL> /
```

EMPNAME	EMPSAL	EMPDNAME	MGRNAME	EMPSAL	MGRDNAME
JONES	2975	RESEARCH	KING	5000	RESEARCH
CLARK	2450	ACCOUNTING	KING	5000	ACCOUNTING
BLAKE	2850	SALES	KING	5000	SALES
WARD	1250	SALES	BLAKE	2850	SALES
JAMES	950	SALES	BLAKE	2850	SALES
TURNER	1500	SALES	BLAKE	2850	SALES
ALLEN	1600	SALES	BLAKE	2850	SALES
MARTIN	1250	SALES	BLAKE	2850	SALES

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```
.....
MILLER          1300 ACCOUNTING      CLARK          2450 ACCOUNTING
SCOTT           3000 RESEARCH        JONES          2975 RESEARCH
FORD            3000 RESEARCH        JONES          2975 RESEARCH
SMITH           800 RESEARCH          FORD           3000 RESEARCH
ADAMS           1100 RESEARCH        SCOTT          3000 RESEARCH
```

13 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  M.Ename MGRName,
  5  M.Sal MGRSal,
  6  DM.Dname MGRDname
  7  FROM Emp E, Dept DE, Emp M, Dept DM
  8  WHERE E.Deptno = DE.Deptno AND
  9  M.Deptno = DM.Deptno AND
 10  E.MGR = M.Empno;
```

EMPNAME	EMPSAL	MGRNAME	MGRSAL	MGRDNAME
BLAKE	2850	KING	5000	ACCOUNTING
CLARK	2450	KING	5000	ACCOUNTING
JONES	2975	KING	5000	ACCOUNTING
MARTIN	1250	BLAKE	2850	SALES
ALLEN	1600	BLAKE	2850	SALES
TURNER	1500	BLAKE	2850	SALES
JAMES	950	BLAKE	2850	SALES
WARD	1250	BLAKE	2850	SALES
FORD	3000	JONES	2975	RESEARCH
SMITH	800	FORD	3000	RESEARCH
SCOTT	3000	JONES	2975	RESEARCH
ADAMS	1100	SCOTT	3000	RESEARCH
MILLER	1300	CLARK	2450	ACCOUNTING

13 rows selected.

```
SQL> ED
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```

```
1  SELECT
2  E.Ename EmpName,
```

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```
3 E.Sal EmpSal,
4 DE.Dname EmpDname,
5 M.Ename MGRName,
6 M.Sal MGRSal,
7 DM.Dname MGRDname
8 FROM Emp E, Dept DE, Emp M, Dept DM
9 WHERE E.Deptno = DE.Deptno AND
10 M.Deptno = DM.Deptno AND
11* E.MGR = M.Empno
SQL> /
```

EMPNAME	EMPSAL	EMPDNAME	MGRNAME	MGRSAL	MGRDNAME
MILLER	1300	ACCOUNTING	CLARK	2450	ACCOUNTING
BLAKE	2850	SALES	KING	5000	ACCOUNTING
CLARK	2450	ACCOUNTING	KING	5000	ACCOUNTING
JONES	2975	RESEARCH	KING	5000	ACCOUNTING
ADAMS	1100	RESEARCH	SCOTT	3000	RESEARCH
SMITH	800	RESEARCH	FORD	3000	RESEARCH
FORD	3000	RESEARCH	JONES	2975	RESEARCH
SCOTT	3000	RESEARCH	JONES	2975	RESEARCH
MARTIN	1250	SALES	BLAKE	2850	SALES
ALLEN	1600	SALES	BLAKE	2850	SALES
TURNER	1500	SALES	BLAKE	2850	SALES
JAMES	950	SALES	BLAKE	2850	SALES
WARD	1250	SALES	BLAKE	2850	SALES

13 rows selected.

```
SQL> COLUMN Employee FORMAT A14
SQL> COLUMN "Employee's Dept" FORMAT A10
SQL> COLUMN Manager FORMAT A15
SQL> COLUMN "Manager's Dept" FORMAT A15
SQL> SELECT
2 NVL(E.Ename, 'Not Recruited') EmpName,
3 DE.Dname EmpDname,
4 NVL(M.Ename, 'NULL Manager') MGRName,
5 NVL(DM.Dname, 'Not Recruited') MGRDname,
6 DE.Deptno MGRDeptno
7 FROM Emp E, Dept DE, Emp M, Dept DM
8 WHERE E.Deptno(+) = DE.Deptno AND
9 M.Deptno = DM.Deptno(+) AND
10 E.MGR = M.Empno(+);
```

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EMPNAME	EMPDNAME	MGRNAME	MGRDNAME	MGRDEPTNO
MILLER	ACCOUNTING	CLARK	ACCOUNTING	10
BLAKE	SALES	KING	ACCOUNTING	30
CLARK	ACCOUNTING	KING	ACCOUNTING	10
JONES	RESEARCH	KING	ACCOUNTING	20
ADAMS	RESEARCH	SCOTT	RESEARCH	20
SMITH	RESEARCH	FORD	RESEARCH	20
FORD	RESEARCH	JONES	RESEARCH	20
SCOTT	RESEARCH	JONES	RESEARCH	20
MARTIN	SALES	BLAKE	SALES	30
ALLEN	SALES	BLAKE	SALES	30
TURNER	SALES	BLAKE	SALES	30
JAMES	SALES	BLAKE	SALES	30
WARD	SALES	BLAKE	SALES	30
KING	ACCOUNTING	NULL Manager	Not Recruited	10
Not Recruited	OPERATIONS	NULL Manager	Not Recruited	40

15 rows selected.

SQL> cl scr

SQL> COLUMN "Employee's Salary" FORMAT 9999

SQL> COLUMN EMPGRADE FORMAT 99

SQL> COLUMN "Manager's Salary" FORMAT 9999

SQL> COLUMN MGRGRADE FORMAT 99

SQL> SELECT

```
2 E.Ename EmpName,
3 E.Sal EmpSal,
4 SE.Grade EmpGrade,
5 M.Sal MGRSal,
6 SM.Grade MGRGrade,
7 Dname MGRDname
8 FROM Emp E, Dept D, Emp M, SalGrade SE, SalGrade SM
9 WHERE E.Deptno = D.Deptno AND
10 E.MGR = M.Empno AND
11 E.Sal BETWEEN SE.LoSal AND SE.HiSal AND
12 M.Sal BETWEEN SM.LoSal AND SM.HiSal;
```

EMPNAME	EMPSAL	EMPGRADE	MGRSAL	MGRGRADE	MGRDNAME
SMITH	800	1	3000	4	RESEARCH
JAMES	950	1	2850	4	SALES
ADAMS	1100	1	3000	4	RESEARCH

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```
.....
WARD          1250          2          2850          4 SALES
MARTIN        1250          2          2850          4 SALES
MILLER        1300          2          2450          4 ACCOUNTING
TURNER        1500          3          2850          4 SALES
ALLEN         1600          3          2850          4 SALES
CLARK         2450          4          5000          5 ACCOUNTING
BLAKE         2850          4          5000          5 SALES
JONES         2975          4          5000          5 RESEARCH
FORD          3000          4          2975          4 RESEARCH
SCOTT         3000          4          2975          4 RESEARCH
```

13 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  E.Ename EmpName,
3  E.Sal EmpSal,
4  SE.Grade EmpGrade,
5  M.Ename MGRName,
6  M.Sal MGRSal,
7  SM.Grade MGRGrade,
8  Dname MGRDname
9  FROM Emp E, Dept D, Emp M, SalGrade SE, SalGrade SM
10 WHERE E.Deptno = D.Deptno AND
11 E.MGR = M.Empno AND
12 E.Sal BETWEEN SE.LoSal AND SE.HiSal AND
13* M.Sal BETWEEN SM.LoSal AND SM.HiSal
SQL> /
```

EMPNAME	EMPSAL	EMPGRADE	MGRNAME	MGRSAL	MGRGRADE	MGRDNAME
---	---	---	---	---	---	---
SMITH	800	1	FORD	3000	4	RESEARCH
JAMES	950	1	BLAKE	2850	4	SALES
ADAMS	1100	1	SCOTT	3000	4	RESEARCH
WARD	1250	2	BLAKE	2850	4	SALES
MARTIN	1250	2	BLAKE	2850	4	SALES
MILLER	1300	2	CLARK	2450	4	ACCOUNTING
TURNER	1500	3	BLAKE	2850	4	SALES
ALLEN	1600	3	BLAKE	2850	4	SALES
CLARK	2450	4	KING	5000	5	ACCOUNTING
BLAKE	2850	4	KING	5000	5	SALES

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```
JONES          2975          4 KING          5000          5 RESEARCH
FORD            3000          4 JONES          2975          4 RESEARCH
SCOTT           3000          4 JONES          2975          4 RESEARCH
```

13 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  E.ename EmpName,
3  E.sal EmpSal,
4  SE.grade EmpGrade,
5  DE.dname EmpDname,
6  M.ename MGRName,
7  M.sal MGRSal,
8  SM.grade MGRGrade,
9  DM.dname MGRDname
10 FROM Emp E, Dept DE, Dept DM, Emp M, SalGrade SE, SalGrade SM
11 WHERE E.deptno = DE.deptno AND
12 M.deptno = DM.deptno AND
13 E.mgr = M.empno AND
14 E.sal BETWEEN SE.losal AND SE.hisal AND
15* M.sal BETWEEN SM.losal AND SM.hisal
SQL> /
```

EMPNAME	EMPSAL	EMPGRADE	EMPDNAME	MGRNAME	MGRSAL
MGRGRADE	MGRDNAME				
SMITH	800	1	RESEARCH	FORD	3000
4 RESEARCH					
JAMES	950	1	SALES	BLAKE	2850
4 SALES					
ADAMS	1100	1	RESEARCH	SCOTT	3000
4 RESEARCH					
WARD	1250	2	SALES	BLAKE	2850
4 SALES					
MARTIN	1250	2	SALES	BLAKE	2850
4 SALES					
MILLER	1300	2	ACCOUNTING	CLARK	2450
4 ACCOUNTING					
TURNER	1500	3	SALES	BLAKE	2850
4 SALES					

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```
.....
ALLEN          1600          3 SALES          BLAKE          2850
4 SALES
CLARK          2450          4 ACCOUNTING    KING          5000
5 ACCOUNTING
BLAKE          2850          4 SALES          KING          5000
5 ACCOUNTING
JONES          2975          4 RESEARCH      KING          5000
5 ACCOUNTING
FORD           3000          4 RESEARCH      JONES         2975
4 RESEARCH
SCOTT          3000          4 RESEARCH      JONES         2975
4 RESEARCH
```

13 rows selected.

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Emp CROSS JOIN Dept;

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
JONES	10	ACCOUNTING	NEW YORK
MARTIN	10	ACCOUNTING	NEW YORK
ALLEN	10	ACCOUNTING	NEW YORK
TURNER	10	ACCOUNTING	NEW YORK
JAMES	10	ACCOUNTING	NEW YORK
WARD	10	ACCOUNTING	NEW YORK
FORD	10	ACCOUNTING	NEW YORK
SMITH	10	ACCOUNTING	NEW YORK
SCOTT	10	ACCOUNTING	NEW YORK
ADAMS	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
KING	20	RESEARCH	DALLAS
BLAKE	20	RESEARCH	DALLAS
CLARK	20	RESEARCH	DALLAS

ENAME	DEPTNO	DNAME	LOC
JONES	20	RESEARCH	DALLAS
MARTIN	20	RESEARCH	DALLAS

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ALLEN	20	RESEARCH	DALLAS
TURNER	20	RESEARCH	DALLAS
JAMES	20	RESEARCH	DALLAS
WARD	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	20	RESEARCH	DALLAS
KING	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO
CLARK	30	SALES	CHICAGO
JONES	30	SALES	CHICAGO
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO

ENAME	DEPTNO	DNAME	LOC
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	30	SALES	CHICAGO
SMITH	30	SALES	CHICAGO
SCOTT	30	SALES	CHICAGO
ADAMS	30	SALES	CHICAGO
MILLER	30	SALES	CHICAGO
KING	40	OPERATIONS	BOSTON
BLAKE	40	OPERATIONS	BOSTON
CLARK	40	OPERATIONS	BOSTON
JONES	40	OPERATIONS	BOSTON
MARTIN	40	OPERATIONS	BOSTON
ALLEN	40	OPERATIONS	BOSTON
TURNER	40	OPERATIONS	BOSTON
JAMES	40	OPERATIONS	BOSTON
WARD	40	OPERATIONS	BOSTON

ENAME	DEPTNO	DNAME	LOC
FORD	40	OPERATIONS	BOSTON
SMITH	40	OPERATIONS	BOSTON
SCOTT	40	OPERATIONS	BOSTON
ADAMS	40	OPERATIONS	BOSTON
MILLER	40	OPERATIONS	BOSTON

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56 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Dept.Deptno, Dname, Loc
2* FROM Emp, Dept
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
JONES	10	ACCOUNTING	NEW YORK
MARTIN	10	ACCOUNTING	NEW YORK
ALLEN	10	ACCOUNTING	NEW YORK
TURNER	10	ACCOUNTING	NEW YORK
JAMES	10	ACCOUNTING	NEW YORK
WARD	10	ACCOUNTING	NEW YORK
FORD	10	ACCOUNTING	NEW YORK
SMITH	10	ACCOUNTING	NEW YORK
SCOTT	10	ACCOUNTING	NEW YORK
ADAMS	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
KING	20	RESEARCH	DALLAS
BLAKE	20	RESEARCH	DALLAS
CLARK	20	RESEARCH	DALLAS

ENAME	DEPTNO	DNAME	LOC
JONES	20	RESEARCH	DALLAS
MARTIN	20	RESEARCH	DALLAS
ALLEN	20	RESEARCH	DALLAS
TURNER	20	RESEARCH	DALLAS
JAMES	20	RESEARCH	DALLAS
WARD	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	20	RESEARCH	DALLAS
KING	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO

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```
CLARK          30 SALES          CHICAGO
JONES          30 SALES          CHICAGO
MARTIN         30 SALES          CHICAGO
ALLEN          30 SALES          CHICAGO
```

```
ENAME          DEPTNO DNAME          LOC
-----
TURNER         30 SALES          CHICAGO
JAMES          30 SALES          CHICAGO
WARD           30 SALES          CHICAGO
FORD           30 SALES          CHICAGO
SMITH          30 SALES          CHICAGO
SCOTT          30 SALES          CHICAGO
ADAMS          30 SALES          CHICAGO
MILLER         30 SALES          CHICAGO
KING           40 OPERATIONS     BOSTON
BLAKE          40 OPERATIONS     BOSTON
CLARK          40 OPERATIONS     BOSTON
JONES          40 OPERATIONS     BOSTON
MARTIN         40 OPERATIONS     BOSTON
ALLEN          40 OPERATIONS     BOSTON
TURNER         40 OPERATIONS     BOSTON
JAMES          40 OPERATIONS     BOSTON
WARD           40 OPERATIONS     BOSTON
```

```
ENAME          DEPTNO DNAME          LOC
-----
FORD           40 OPERATIONS     BOSTON
SMITH          40 OPERATIONS     BOSTON
SCOTT          40 OPERATIONS     BOSTON
ADAMS          40 OPERATIONS     BOSTON
MILLER         40 OPERATIONS     BOSTON
```

56 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Dept.Deptno, Dname, Loc
2  FROM Emp CROSS JOIN Dept
3  WHERE Emp.Deptno = Dept.Deptno;
```

```
ENAME          DEPTNO DNAME          LOC
-----
KING            10 ACCOUNTING     NEW YORK
```

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```
BLAKE          30 SALES          CHICAGO
CLARK          10 ACCOUNTING    NEW YORK
JONES          20 RESEARCH      DALLAS
MARTIN         30 SALES          CHICAGO
ALLEN          30 SALES          CHICAGO
TURNER         30 SALES          CHICAGO
JAMES          30 SALES          CHICAGO
WARD           30 SALES          CHICAGO
FORD           20 RESEARCH      DALLAS
SMITH          20 RESEARCH      DALLAS
SCOTT          20 RESEARCH      DALLAS
ADAMS          20 RESEARCH      DALLAS
MILLER         10 ACCOUNTING    NEW YORK
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Deptno, Dname, Loc
       2 FROM Emp NATURAL JOIN Dept;
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Dept.Deptno, Dname, Loc
```

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```
2* FROM Emp NATURAL JOIN Dept
SQL> /
SELECT Ename, Dept.Deptno, Dname, Loc
      *
ERROR at line 1:
ORA-25155: column used in NATURAL join cannot have qualifier
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Deptno, Dname, Loc
      2  FROM Emp JOIN Dept
      3  USING (Deptno);
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Dept.Deptno, Dname, Loc
2  FROM Emp JOIN Dept
3* USING (Deptno)
SQL> /
SELECT Ename, Dept.Deptno, Dname, Loc
      *
ERROR at line 1:
ORA-25154: column part of USING clause cannot have qualifier
```

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```
SQL> SELECT Ename, Deptno, Dname, Loc
2 FROM Emp INNER JOIN Dept
3 USING (Deptno);
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Emp JOIN Dept
3 ON Emp.Deptno = Dept.Deptno;
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS

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```
SCOTT          20 RESEARCH      DALLAS
ADAMS          20 RESEARCH      DALLAS
MILLER         10 ACCOUNTING    NEW YORK
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
 1  SELECT Ename, Deptno, Dname, Loc
 2  FROM Emp JOIN Dept
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
SELECT Ename, Deptno, Dname, Loc
      *
ERROR at line 1:
ORA-00918: column ambiguously defined
```

```
SQL> ED
Wrote file afiedt.buf
```

```
 1  SELECT Ename, Deptno, Dname, Loc
 2  FROM Emp INNER JOIN Dept
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
SELECT Ename, Deptno, Dname, Loc
      *
ERROR at line 1:
ORA-00918: column ambiguously defined
```

```
SQL> ED
Wrote file afiedt.buf
```

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Emp INNER JOIN Dept
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO

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```
CLARK          10 ACCOUNTING    NEW YORK
JONES          20 RESEARCH      DALLAS
MARTIN         30 SALES        CHICAGO
ALLEN          30 SALES        CHICAGO
TURNER         30 SALES        CHICAGO
JAMES          30 SALES        CHICAGO
WARD           30 SALES        CHICAGO
FORD           20 RESEARCH      DALLAS
SMITH          20 RESEARCH      DALLAS
SCOTT          20 RESEARCH      DALLAS
ADAMS          20 RESEARCH      DALLAS
MILLER         10 ACCOUNTING    NEW YORK
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Emp INNER JOIN Dept
 3* WHERE Emp.Deptno = Dept.Deptno
SQL> /
WHERE Emp.Deptno = Dept.Deptno
*
```

ERROR at line 3:

ORA-00905: missing keyword

SQL> cl scr

```
SQL> SELECT
 2  E.Ename Employee,
 3  M.Ename Manager
 4  FROM
 5  Emp E INNER JOIN Emp M
 6  ON (E.MGR = M.Empno);
```

EMPLOYEE	MANAGER
JONES	KING
CLARK	KING
BLAKE	KING
WARD	BLAKE
JAMES	BLAKE

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TURNER	BLAKE
ALLEN	BLAKE
MARTIN	BLAKE
MILLER	CLARK
SCOTT	JONES
FORD	JONES
SMITH	FORD
ADAMS	SCOTT

13 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  E.Ename Employee,
3  M.Ename Manager
4  FROM
5  Emp E CROSS JOIN Emp M
6* ON(E.MGR = M.Empno)
SQL> /
ON(E.MGR = M.Empno)
*
ERROR at line 6:
ORA-00933: SQL command not properly ended
```

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  E.Ename Employee,
3  M.Ename Manager
4  FROM
5  Emp E CROSS JOIN Emp M
6* WHERE E.MGR = M.Empno
SQL> /
```

EMPLOYEE	MANAGER
JONES	KING
CLARK	KING
BLAKE	KING
WARD	BLAKE

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```
JAMES      BLAKE
TURNER     BLAKE
ALLEN      BLAKE
MARTIN     BLAKE
MILLER     CLARK
SCOTT      JONES
FORD       JONES
SMITH      FORD
ADAMS      SCOTT
```

13 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Grade, Dept.Deptno, Dname
  2  FROM Emp JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno
  4  JOIN SalGrade
  5  ON Emp.Sal BETWEEN LoSal AND HiSal;
```

ENAME	SAL	GRADE	DEPTNO	DNAME
SMITH	800	1	20	RESEARCH
JAMES	950	1	30	SALES
ADAMS	1100	1	20	RESEARCH
WARD	1250	2	30	SALES
MARTIN	1250	2	30	SALES
MILLER	1300	2	10	ACCOUNTING
TURNER	1500	3	30	SALES
ALLEN	1600	3	30	SALES
CLARK	2450	4	10	ACCOUNTING
BLAKE	2850	4	30	SALES
JONES	2975	4	20	RESEARCH
FORD	3000	4	20	RESEARCH
SCOTT	3000	4	20	RESEARCH
KING	5000	5	10	ACCOUNTING

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Sal, Grade, Dept.Deptno, Dname
2  FROM Emp INNER JOIN Dept
```

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```
.....
3  ON Emp.Deptno = Dept.Deptno
4  JOIN SalGrade
5* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /
```

ENAME	SAL	GRADE	DEPTNO	DNAME
SMITH	800	1	20	RESEARCH
JAMES	950	1	30	SALES
ADAMS	1100	1	20	RESEARCH
WARD	1250	2	30	SALES
MARTIN	1250	2	30	SALES
MILLER	1300	2	10	ACCOUNTING
TURNER	1500	3	30	SALES
ALLEN	1600	3	30	SALES
CLARK	2450	4	10	ACCOUNTING
BLAKE	2850	4	30	SALES
JONES	2975	4	20	RESEARCH
FORD	3000	4	20	RESEARCH
SCOTT	3000	4	20	RESEARCH
KING	5000	5	10	ACCOUNTING

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Sal, Grade, Dept.Deptno, Dname
2  FROM Emp INNER JOIN Dept
3  ON Emp.Deptno = Dept.Deptno
4  INNER JOIN SalGrade
5* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /
```

ENAME	SAL	GRADE	DEPTNO	DNAME
SMITH	800	1	20	RESEARCH
JAMES	950	1	30	SALES
ADAMS	1100	1	20	RESEARCH
WARD	1250	2	30	SALES
MARTIN	1250	2	30	SALES
MILLER	1300	2	10	ACCOUNTING
TURNER	1500	3	30	SALES
ALLEN	1600	3	30	SALES

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```
CLARK          2450          4          10 ACCOUNTING
BLAKE          2850          4          30 SALES
JONES          2975          4          20 RESEARCH
FORD           3000          4          20 RESEARCH
SCOTT          3000          4          20 RESEARCH
KING           5000          5          10 ACCOUNTING
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Sal, Grade, Deptno, Dname
2  FROM Emp NATURAL JOIN Dept
3  INNER JOIN SalGrade
4* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /
```

ENAME	SAL	GRADE	DEPTNO	DNAME
SMITH	800	1	20	RESEARCH
JAMES	950	1	30	SALES
ADAMS	1100	1	20	RESEARCH
WARD	1250	2	30	SALES
MARTIN	1250	2	30	SALES
MILLER	1300	2	10	ACCOUNTING
TURNER	1500	3	30	SALES
ALLEN	1600	3	30	SALES
CLARK	2450	4	10	ACCOUNTING
BLAKE	2850	4	30	SALES
JONES	2975	4	20	RESEARCH
FORD	3000	4	20	RESEARCH
SCOTT	3000	4	20	RESEARCH
KING	5000	5	10	ACCOUNTING

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Sal, Grade, Deptno, Dname
2  FROM Emp JOIN Dept
3  USING (Deptno)
4  INNER JOIN SalGrade
```

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```
5* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /
```

ENAME	SAL	GRADE	DEPTNO	DNAME
SMITH	800	1	20	RESEARCH
JAMES	950	1	30	SALES
ADAMS	1100	1	20	RESEARCH
WARD	1250	2	30	SALES
MARTIN	1250	2	30	SALES
MILLER	1300	2	10	ACCOUNTING
TURNER	1500	3	30	SALES
ALLEN	1600	3	30	SALES
CLARK	2450	4	10	ACCOUNTING
BLAKE	2850	4	30	SALES
JONES	2975	4	20	RESEARCH
FORD	3000	4	20	RESEARCH
SCOTT	3000	4	20	RESEARCH
KING	5000	5	10	ACCOUNTING

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT E.Ename, M.Ename, Sal, Grade, D.Deptno, Dname
2 FROM
3 Emp E INNER JOIN Dept D
4 ON E.Deptno = D.Deptno
5 INNER JOIN Emp M
6 ON E.Empno = M.MGR
7 INNER JOIN SalGrade S
8 ON E.Sal BETWEEN LoSal AND HiSal
9 /
```

ENAME	ENAME	SAL	GRADE	DEPTNO	DNAME
KING	BLAKE	2850	5	10	ACCOUNTING
KING	CLARK	2450	5	10	ACCOUNTING
KING	JONES	2975	5	10	ACCOUNTING
BLAKE	MARTIN	1250	4	30	SALES
BLAKE	ALLEN	1600	4	30	SALES
BLAKE	TURNER	1500	4	30	SALES
BLAKE	JAMES	950	4	30	SALES
BLAKE	WARD	1250	4	30	SALES

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```
.....
JONES      FORD      3000      4      20 RESEARCH
FORD       SMITH      800       4      20 RESEARCH
JONES      SCOTT      3000      4      20 RESEARCH
SCOTT      ADAMS      1100      4      20 RESEARCH
CLARK      MILLER     1300      4      10 ACCOUNTING
```

13 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Dept.Deptno, Dname, Loc
       2 FROM Emp RIGHT JOIN Dept
       3 ON Emp.Deptno = Dept.Deptno;
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK
	40	OPERATIONS	BOSTON

15 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Emp RIGHT OUTER JOIN Dept
3* ON Emp.Deptno = Dept.Deptno
```

SQL> /

ENAME	DEPTNO	DNAME	LOC
-------	--------	-------	-----

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```
KING          10 ACCOUNTING    NEW YORK
BLAKE         30 SALES          CHICAGO
CLARK         10 ACCOUNTING    NEW YORK
JONES         20 RESEARCH        DALLAS
MARTIN        30 SALES          CHICAGO
ALLEN         30 SALES          CHICAGO
TURNER        30 SALES          CHICAGO
JAMES         30 SALES          CHICAGO
WARD          30 SALES          CHICAGO
FORD          20 RESEARCH        DALLAS
SMITH         20 RESEARCH        DALLAS
SCOTT         20 RESEARCH        DALLAS
ADAMS         20 RESEARCH        DALLAS
MILLER        10 ACCOUNTING    NEW YORK
              40 OPERATIONS    BOSTON
```

15 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Dept RIGHT OUTER JOIN Emp
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
MILLER	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
KING	10	ACCOUNTING	NEW YORK
ADAMS	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
JONES	20	RESEARCH	DALLAS
WARD	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
MARTIN	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO

14 rows selected.

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```
SQL> ED
Wrote file afiedt.buf
```

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Dept LEFT OUTER JOIN Emp
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK
	40	OPERATIONS	BOSTON

15 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Emp LEFT OUTER JOIN Dept
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
MILLER	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
KING	10	ACCOUNTING	NEW YORK
ADAMS	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS

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```
SMITH          20 RESEARCH      DALLAS
FORD           20 RESEARCH      DALLAS
JONES          20 RESEARCH      DALLAS
WARD           30 SALES         CHICAGO
JAMES          30 SALES         CHICAGO
TURNER         30 SALES         CHICAGO
ALLEN          30 SALES         CHICAGO
MARTIN         30 SALES         CHICAGO
BLAKE          30 SALES         CHICAGO
```

14 rows selected.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
 1  SELECT Ename, Dept.Deptno, Dname, Loc
 2  FROM Emp FULL OUTER JOIN Dept
 3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
MILLER	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
KING	10	ACCOUNTING	NEW YORK
ADAMS	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
JONES	20	RESEARCH	DALLAS
WARD	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
MARTIN	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO
	40	OPERATIONS	BOSTON

15 rows selected.

SQL> ED

Wrote file afiedt.buf

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```
1 SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Dept FULL OUTER JOIN Emp
3* ON Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK
	40	OPERATIONS	BOSTON

15 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
1 SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Dept FULL OUTER JOIN Emp
3* ON Emp.Deptno = Dept.Deptno
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
BLAKE	30	SALES	CHICAGO
CLARK	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	20	RESEARCH	DALLAS

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```
SMITH          20 RESEARCH          DALLAS
SCOTT          20 RESEARCH          DALLAS
ADAMS          20 RESEARCH          DALLAS
MILLER         10 ACCOUNTING        NEW YORK
               40 OPERATIONS          BOSTON
```

15 rows selected.

Execution Plan

Plan hash value: 1500364459

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		15	555	10
(10)	00:00:01				
1	VIEW		15	555	10
(10)	00:00:01				
2	UNION-ALL				
* 3	HASH JOIN OUTER		14	700	7
(15)	00:00:01				
4	TABLE ACCESS FULL	DEPT	4	120	3
(0)	00:00:01				
5	TABLE ACCESS FULL	EMP	14	280	3
(0)	00:00:01				
6	NESTED LOOPS ANTI		1	33	3
(0)	00:00:01				
7	TABLE ACCESS FULL	EMP	14	280	3
(0)	00:00:01				
* 8	INDEX UNIQUE SCAN	DEPT_PRIMARY_KEY	4	52	0
(0)	00:00:01				

Predicate Information (identified by operation id):

3 - access ("EMP"."DEPTNO" (+) ="DEPT"."DEPTNO")

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```
8 - access ("EMP"."DEPTNO"="DEPT"."DEPTNO")
```

Note

- dynamic sampling used for this statement

SQL> SPOOL OFF

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